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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/615,039	07/08/2003	Robindranath Banerjee	01-687/1D	3673
7:	590 10/14/2004		EXAMINER	
LSI CORPORATION			EASTHOM, KARL D	
Intellectual Property Department MS D-106			ART UNIT	PAPER NUMBER
1551 McCarthy Boulevard		2832		
Milpitas, CA 95035			DATE MAILED: 10/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	ication No. Applicant(s)		
Office Action Comment	10/615,039	BANERJEE, ROB	BANERJEE, ROBINDRANATH	
Office Action Summary	Examiner	Art Unit		
	Karl D Easthom	2832	A	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence ad	ldress	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided to the period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rent. a reply within the statutory minimum of thirt. eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely THS from the mailing date of this or ANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on _	·			
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.			
3) Since this application is in condition for all closed in accordance with the practice und	· ·	·	e merits is	
Disposition of Claims				
4) ☐ Claim(s) 16-19 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 16-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	ndrawn from consideration.			
Application Papers				
9)☐ The specification is objected to by the Exar	miner.			
10) The drawing(s) filed on is/are: a)	accepted or b) objected to □	by the Examiner.		
Applicant may not request that any objection to	• • • • • • • • • • • • • • • • • • • •	• •		
Replacement drawing sheet(s) including the co	•	• •		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ıreau (PCT Rule 17.2(a)).	pplication No received in this National	Stage .	
Attachment(s)	A) []	tumman/ (DTO 442)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9483) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 	Paper No(s	Summary (PTO-413) S)/Mail Date Informal Patent Application (PTC	O-152)	

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1. Applicant's election without traverse of Group I, claims 1-15 in Paper No. 3 is acknowledged.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 16 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Wu et al. Wu discloses the claimed invention at col. 4, lines 17-50 where the first and second polycrystalline resistor segments are disclosed as negative and positive and connected in series. The VSLI circuit disclosed at col. 1 meets claim 20.
- 4. Claims 16 is rejected under 35 U.S.C. 102(b) as being anticipated by Van Den Brock et al. Van Den Brock discloses the claimed invention at Fig. 4A with first and second segments 35, 36.
- 5. Claims 16 and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Lowry et al. Lowry discloses the claimed invention at Figs. 10-12 with first and second segments 230A and 270, or 230A and 230B, having finite resistance as noted at pars. 44-45. The metal halide of claims 5-6 is 275
- 6. Claims 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Drabkin.

 Drabkin discloses the claimed invention at Figs. 3-4 and col. 7, lines 5-30, where two resistors are disclosed in series and equation 13 discloses the claimed R1/R2 ratio, see also claims 11-12

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of Drabkin for the series arrangement. Fig. 8 discloses the coefficient of about zero for claim 18.

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- 7. Claims 16-18 and 20 are rejected under 35 U.S.C. 102(a,e) as being anticipated by Baldwin. Baldwin discloses the claimed invention at claims 1,3, where the resistor head is a second segment and the first segment is the semiconductor body, with coefficient about zero as noted by "offsetting" at claim 1, meeting claim 18. See claim 3 of Baldwin for claim 17. For claim 20, see the abstract of Baldwin.
- 8. Claim 16 is rejected under 35 U.S.C. 102(b) as being anticipated by Campbell. Campbell discloses the claimed invention at Fig. 4A with first resistor segment 36 and second segments 40. The desired coefficient of resistance is determined by the first and second coefficients where determined includes or means defined by or set by and the product is desired.
- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Campbell et al. in view of Chan et al. The claimed invention is disclosed as noted above, except the standard CMOS flow. Chan discloses creating SRAM resistors at col. 1, such as that of Campbell, as compatible with standard CMOS process flows at col. 2, so that it would have been obvious where the different processes are similar for the SRAM resistors. For example, in Campbell, the silicide regions are 36, with the unsilicided regions 40, and the resistor includes methods also

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found in a standard CMOS process flow since the standard masking and doping, CVD, etc. at

col. 4 are parts also of a CMOS flow.

11. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Karl D Easthorn whose telephone number is 703 308-3306. The

examiner can normally be reached on M-Th, 5:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Elvin Enad can be reached on 703 308-7619. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 308-7722 for regular

communications and 703 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308-0956.

Karl D Easthom Primary Examiner Page 4

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KDE

October 13, 2004